

State of Louisiana
Department of Transportation and Development (DOTD)
Materials and Testing Section Qualification Procedure
for
Qualified Products List 32

EPOXY RESIN SYSTEMS FOR CONCRETE

MATERIAL SPECIFICATION REFERENCE:

DOTD Standard Specifications, Supplemental Specifications and Special Provisions, Subsection 1017.02.

PRELIMINARY REQUIREMENTS:

Qualified Product Evaluation Form

The manufacturer shall submit a standard "Qualified Product Evaluation" form (copy attached) to the DOTD Materials and Testing Section Coordinator listed below, along with a letter requesting evaluation for the Qualified Products List.

Product Data Sheets

Include product data sheets to provide all pertinent information relative to the product to be evaluated; including, but not limited to, manufacturer's specifications, mixing instructions, intended use of product, typical analysis and Material Safety Data Sheet (MSDS).

Certification and/or Test Reports

The manufacturer shall provide a notarized certificate of analysis showing the required physical and chemical properties for all epoxy systems in accordance with DOTD Standard Specifications.

Sample (to be furnished at no cost to the Department)

Submit a sufficient amount of each component to insure a minimum of 8 Liters (2 gallons) of mixed epoxy at the recommended mixing ratio of components A and B. The sample shall include a sufficient amount of aggregate (component C) for Type III systems intended for use with the manufacturer's recommended aggregate. Additional material may be required for a field evaluation.

TEST REQUIREMENTS:

Laboratory Testing

The qualification sample will be tested for the types and grades in accordance with the applicable test procedures as shown in the attached Subsection 1017.02.

Field Evaluation

The Department may require a field evaluation to ensure satisfactory installation and performance of the product prior to placement on the Qualified Product List. The compatibility of the product in reference to bonding of materials for a period of time will be a factor in acceptance of the product.

Evaluation Time

Laboratory testing - 8 weeks
Field Evaluation - 16 weeks

GENERAL:

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the product will or will not be added to the Qualified Products List. The Department reserves the right to reevaluate any product at any time.

PROJECT ACCEPTANCE REQUIREMENTS:

Qualification of a product is not blanket approval for its use. Type I, II, and III epoxies sent to a project will be sampled in accordance with the Department's Material Sampling Manual. Final acceptance of each lot or shipment is dependent upon test results which shall conform to the established specification requirements and which identify the sample as being representative of the product originally approved.

All Type V Adhesive, regardless of prior approval, shall be sampled in accordance with the Materials Sampling Manual. See DOTD Designation: S606 (attached) for details. Sampling for acceptance may be performed at the markers Applicator's warehouse or other storage facility. When presampled in this manner, each DOTD lot of adhesive shipped to the jobsite shall be accompanied with a Certificate of Delivery (attached). This Certificate of Delivery shall include the test report number which indicates conformance to specifications and represents the material shipped.

When Type V adhesive has not been presampled at the Marker Applicator's warehouse or other storage facility, the Project Engineer shall notify the District Laboratory to take samples at the project site in accordance with DOTD S 606.

DISQUALIFICATION:

Any product may be removed from the Qualified Products List for non-conformance with specifications and/or unsatisfactory field performance. The Department must be notified in writing of any name change or change in product formulation. Significant changes may require reevaluation of the product.

REQUALIFICATION:

A product which has been disqualified and removed from the Qualified Products List will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing removal have been resolved.

DOTD MATERIALS AND TESTING SECTION COORDINATOR

Khiet Ngo, P.E.
Physical Test Engineer
DOTD Materials and Testing Section
5080 Florida Boulevard
Baton Rouge, La. 70806
(225) 248-4134

Approved 03-03-2003

N. D. HOOD, P.E.
MATERIALS ENGINEER ADMINISTRATOR